3.		
Work Or	ler ID	115513
April-02-14 1	1:15:58 A	M
Item ID:	D3391-	025
Revision ID:		
Item Name:	Aft Tube	e. Assembly

April-02-14 11:1		3313	i de la companya de l	*11 !	1513×		-				Page 1	
Revision ID:	D3391-025 Aft Tube Asse	mbly		Accept	*N900	1 040	100)* s	etup Star Stop	171	S1* S2*	=
Required Date:	4/02/14 4/16/14	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item Customer							
		n: MLJ	Date: 14-04-03			Date:		R	un Star Stop	^1 \ 1	R1* R2*	• 7
Sequence ID/ Work Center ID	<u> </u>	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	
Draw Nbr		ision Nbr							C -3			
D3391	I											
100 *1 00* Mori Seiki Mori Seiki CNC Lath	ne Large	-		0.00 0.00 L & Dwg D3391 Rev: L					4		Kc 14-04-	-03
110		QC2- Inspect parts off		0.00				/	S.	t _t	, ,	
110 QC Quality Control		Memo		0.00 DA S 27	· ·	- 1.				• ,	mm.L	7
112		QC5- Inspect part comp	oleteness to step on W/O	0.00	114	•					*:	
QC Quality Control		Memo	· · · · · · · · · · · · · · · · · · ·	0.00								

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115513

Page 3

April-02-14 11:15:58 AM

										
Item ID: Revision ID:	D3391-025			Accept	*N9000	740100) * ፡	Setup Start	*NS1*	
Item Name:	Aft Tube Asse	mbly	~	² 	16 4 17 4 18 18 18			Stop	*NS2*	
Start Date:	4/02/14	Start Qty: 1.00	*1*		Cust Item ID):	*			
Required Date:	4/16/14	Req'd Qty: 1.00	*1*		Customer:		k -			
Reference:			:					·		
Approvals:	Process Pla	n:	Date:	Tooling:	Dat	te:		Run Start	*NR1*	ı
	QC:		Date:	_ SPC (Y/N):	Dat	te:		Stop	*NR2*	ı
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool # Plan Code	Accept Qty		Reject Insp. Number Stamp	
150	٠.		다.	0.00				1 1	_	
150 Skidtubes	, * ·	Skidtubes Memo	Mr. Comments of the Comments o	0.00			DC	14/04/0	29	_
Skidtubes	7 2	•	LOT HOLE) aft cap holes	per Dwg D3391 using DT	8803	•		•		
£ 87.	. 3.				· .					
160	. 40			0.00				/ /	/	
160		BENDING MACHINE	- SKIDTUBES				Dr	ا تبادا الا	701	
CNC Bend 1	ş	Memo		0.00	, - 1		<u> </u>	1/07/	 	-
CNC Delta 100 Ben	der.	Form as pe	er Dwg D3391 Using Bend	Prog 3391025		and the state of t	ř.		*	
						2. A 2. A				
170	-	QC5- Inspect part comp	oleteness to step on W/O	0.00			_			
170 QC Quality Control		Мето		0.00		DAS CS	D) 74	429)_
						•	ು ಆಶ್ವ - ಕೈಗೆ 	A		

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115513

Page 4

April-02-14 11	:15:58 AM			· · · · · · · · · · · · · · · · · · ·);) I' ,						1 age
Item ID: Revision ID:	D3391-025	5 .		Accept	*N900	040	100	ገ*	Setup Star	I	S1*
Item Name:	Aft Tube As	ssembly							Sto	, * N	S2*
Start Date:	4/02/14	Start Qty: 1.00	*1*		Cust Item 1	ID:					
Required Date Reference:	: 4/16/14	Req'd Qty: 1.00	*1*	Art.	Customer:				_		7
Approvals:	Process P	Plan:	Date:	Tooling:	D:	ate:	_	1	Run Star	~!/J	R1 *
	QC:	4	Date:	SPC (Y/N):	Da	ate:			Sto	, *N	R2*
Sequence ID/ Work Center I	,	Operation Description	·	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
*1 A \	Semily .	Skidtubes		0.00	·	•			•		
Skidtubes Skidtubes		Memo 1-Open Afr	t cap pilot hole to .208" a	0.00 s per Dwg D3391					. ,		
	•	2-Drill floa 3-Drill wea Wearplate . *****Do N	t bag holes using DT8809 uplate holes as per Dwg D Jig . Tot Open To Finished Size	9 as per Dwg D3391(Holes 03391 using DT8878(Mid '	Гube) & DT8217		>	al!	1/04/	30	
<i>y</i> 			arshoe holes as per DWG drilled aft wearplate hole	D3391 using DT8939 loca s.	ating from 2						
		5-Open we	arplate holes to 0.297" an	d c'bore as per dwg D3391							A.V.
		6-Open up	all float bag holes to 0.32	8" and c'sink as per Dwg D	03391.						
•		7-Deburr									
		8- Scribe b	atch # on fwd end								

Work Order ID 115513

115513

Page 5

April-02-14 11:15:58 AM Item ID: D3391-025 Accept Setup Start *N900040100* **Revision ID:** Stop **Item Name:** Aft Tube Assembly **Start Date:** 4/02/14 Start Qty: 1.00 *1* **Cust Item ID:** Required Date: 4/16/14 Req'd Qty: 1.00 *1* **Customer:** Reference: Run Approvals: **Tooling:** Process Plan: Date: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Tool # Plan Set Up/ Accept Reject Reject Insp. **Work Center ID** Description **Run Hours** Qty Qty Number Stamp Code 190 QC5- Inspect part completeness to step on W/O *190* QC Memo Quality Control 200 Chemical Conversion Coat per QSI005 4.1 0.00 14-5-1 24/082 *200* HandFinish Memo Hand Finishing 210 QC7-Inspect Chemical Conversion Coat 0.00 0.00 Memo

Quality Control

230

QC5- Inspect part completeness to step on W/O

5- Deburr

Memo

230

QC

Quality Control

De 14/05/06

0.00

April-02-14 11:15:58 AM

Item ID: D3391-025 Accept *N900040100* Setup Start **Revision ID:** Stop Item Name: Aft Tube Assembly *1* **Start Date:** 4/02/14 Start Qty: 1.00 **Cust Item ID:** Required Date: 4/16/14 Reg'd Oty: 1.00 *1* **Customer:** Reference: Run Start Process Plan: Date: Tooling: **Approvals:** Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ **Tool ID** Tool # Plan Accept Reject Reject Insp. Work Center ID **Description** Number **Run Hours** Code Oty Oty Stamp 235 Pressure Wash per QSI005 4.3 0.00 1 76 146-11 *235* HandFinish 0.00 Memo Hand Finishing AND REALODINE AS PER PAR09-043 White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum 240 0.00 1 8 12/7-16. *240* Powdercoat 0.00 Memo Powder Coating FINISH TIME: 250 QC3- Inspect Part Finish

0.00

250 OC

Memo

0.00

Quality Control

Work Ord <i>April-</i> 02-14 11:		5513		*115513*								Page 8
Item ID: Revision ID: Item Name:	D3391-025 Aft Tube Asse	embly		Accept	*N	900	040	100)*	Setup	Start Stop	*NS1* *NS2*
Start Date: Required Date: Reference:	4/02/14 4/16/14	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*			ust Item I ustomer:	D:					
Approvals:	Process Pla	ın:	Date:	Tooling:		Da	ate:	-		Run	Start	*NR1*
	QC:		Date:	_ SPC (Y/N):	-		ate:				Stop	*NR2*
Sequence ID/ Work Center II) .	Operation Description		Set Up/ Run Hours		Fool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Insp. Number Stamp
260 *260* HandFinish		HandFinishing Memo		0.00			-		_1x		و	R 1407/17
Hand Finishing		✓ 1-Install inse✓ 2-Install AftA/R Sikafle	erts as per Dwg D3391 Cap as per Dwg D3391 ex-241/-291	<u>15</u> 7						'		
ı	•	3- INSTALL	WEARPLATES AS PER	DWG								
270		QC5- Inspect part comple	eteness to step on W/O	0.00 DAS 0.00 27 9-89	_							
970 QC		Memo		0.00 M	H118							

280

280

Quality Control

Packaging

Packaging

Identify as per dwg & Stock Location: 1010

9811118/810-147-5146 000

Memo

0.00

Work Ord		15513		*115			Page					
Item ID: Revision ID: Item Name:	D3391-025 Aft Tube Ass			Accept	*N900	040	100)*	Setup	Start Stop	171	S1* S2*
Start Date: Required Date Reference:	4/02/14 : 4/16/14	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item 1 Customer:	ID:						• • •
Approvals:	Process P	lan:	Date:	Tooling:	D:	ate:	_		Run	Start	*N	R1*
	QC:		Date:	SPC (Y/N):	D :	ate:				Stop	*N	R2*
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	t Re	-	Reject Number	Insp. Stamp
290 *200* QC Quality Control		QC21- Final Inspection -	Work Order Release	0.00				-		14/	7/2	1 1

Page 1

Work Order ID: 115513

115513

Parent Item:

D3391-025

D3391-025

Parent Item Name: Aft Tube Assembly

Start Date: 4/02/14

Required Date: 4/16/14

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev B 06-02-07 IPP Rev:C

ECN773 dwg rev. D EC Update Manuf. Instructions JLM

06-03-28 IPP rev D 07.03.20

revF dwg EC

IPP rev E 07.11.07

rev G dwg ecn 1053p EC verified by: DD

IPP Rev:F 07-11-13

ECN 1056 DD verified by: EC IPP Rev:G 08-09-10 revH as per dwg DD verified by:EC IPP Rev:H

11.11.14 AS PER REV.I DD verified by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4095-047	· · · · · · · · · · · · · · · · · · ·	Manufactured	No			260	Each	18.0000	1	1			
D4095-04 Wearpad Assembly	17								**		LL	407	17
!				Location	!	Loc	<u>Qty</u>	Loc Code					
				FP001			18		_				
					102241		2		_		_		
D4095-049					108289		16		_	N/	_		
		Manufactured	No			260	Each	13.0000	1	1		\	٥
D4095-04 Wearpad Assembly	19								**		all	ialo	1/17
				Location	!	Loc	<u>Oty</u>	Loc Code					
				FP001			12				-		
					109670		12		_	VI	_		
·				FP002			1						
D6014-090					102216		1						
		Manufactured	No			100	Each	69.0000	1	1			
*D6014-09 ALUMINUM EXTRUSION									**				
				Location	!	Loc	<u>Oty</u>	Loc Code					
				LG003			69		_				
					79742		17				_		,
					(6063)		52		_	[- m	mL 1	1/04/0

April-02-14 11:16:02 AM

Work Order ID: 115513 *115513* *D3391-025* **Parent Item:** D3391-025 Parent Item Name: Aft Tube Assembly Required Date: 4/16/14 **Start Date: 4/02/14** Start Qty: 1.00 Required Qty: 1.00 D3670-4-200 Manufactured 230 Each 300.0000 *D3670-4-200* Location Loc Qty Loc Code FG 10 87709 10 LG001 290 103880 39 109108 242 96240 9 D2646 Manufactured 270 Each 75.0000 ** Aft Cap Location Loc Qty Loc Code FG 4 85848 2 90495 2 FP001 71 14 103306 107857 1 110816 18 113830 38

April-02-14 11:16:02 AM

Work Order ID: 115513

115513

Parent Item:

D3391-025

Parent Item Name: Aft Tube Assembly

D3391-025

Start Date: 4/02/14

Required Date: 4/16/14

Start Qty: 1.00

**

Required Qty: 1.00

D3672-1

Manufactured

270

Each

1,420.000

Phenolic Washer

Location	<u>Lo</u>	c Oty	Loc Code		
FG		10			
85222		10			
ST060		1410			
103845		4			
112218		500			
113581		500			
93886		224			
99099		182			
	260	Each	9.937.000	14	1.4

ALS4-1032-130

AELS4-1032-130 Purchased

No

Loc Code

**

140 7/10

AI S4-1032-130

Location	<u>n</u>	Loc Oty
FP001		9832
	M128649	9832
ST279		48
	M128211	48
st510		57
	M126109	57

April-02-14 11:16:02 AM

Shop Packet Print

Page 3

April-02-14 11:16:02 AM

Work Order ID: 115513

D3391-025 **Parent Item:**

Parent Item Name: Aft Tube Assembly

115513

D3391-025

Start Date: 4/02/14

Required Date: 4/16/14

Start Qty: 1.00

**

Required Qty: 1.00

ALS4-1032-225

AELS8-1032-225 Purchased

Purchased

No

270

Each

1,490.000

AI S4-1032-225

Rivnut

Location	1	<u>I</u> .	oc Oty	Loc Code				
FG			30					
	M127028		30					
FP001			1000					
	M128649		1000					
ST280			426					
	M127028		10					
	M128179		416					
st555			34				<u> </u>	
	M127092		34					
		270	Each	2,208.000		6	6	
					**		<u>H</u>	

AN3C4A

AN3C4A

Location	Loc Oty	<u>Loc Code</u>	
FG	20		
122814	20	PF8851N1	X (e
ST350/513	1000	•	
M128606	1000		
ST512	3		
124221	3		
ST513	1185		·
125388	122		

62

1000

M127410 M127832

M128634

Picklist Print

April-02-14 11:16:02 AM

Work Order ID: 115513

D3391-025

Parent Item Name: Aft Tube Assembly

Parent Item:

115513

D3391-025

Start Date: 4/02/14

Required Date: 4/16/14

Start Qty: 1.00

**

**

Required Qty: 1.00

AN3C5A

Purchased

Purchased

No

No

270

270

Each

705.0000

Loc Code

AN3C5A

Location Loc Qty FG

122800 ST350

M128057

111 128911 700

3671

2500

1084

26

61

700 Each

9,644.000

10

10

NAS1149C0332R

WASHER

NAS1149C0332R

Location Loc Qty GA 1005 125654 1005 ST292 4968 4968

m128591 st510

m126319 m127306 m127410 m127831 11129499

Loc Code

VO

DQA:			Date:											TO A DT
QA Closed:			Date:			WORK ORDER NON	-C(ONFO	RMANCE / U		Vork O	rder u _l	odate only	AEROSPACE
Work Orde	er:					DISPOSITION				AGAINST [EPART	MENT	/PROCESS	
Part No. NCR No.						Rework Scrap Use-as-is Suspected Unapproved		Skid-tube Crosstube Machining Small Fab Thermoforming Finishing Large Fab Composite		Prod. Eng. Coor. g Rec/Store/Packaging		d. Eng. Coor. re/Packaging	Engineering Quality Other	
Root					Desci	ription of work order update		nitial	Act	ion	Sig	n &		
Cause	ן נ	Date	Step	Qty		or non-conformance	Ch	ief Eng	Descr	ription	D	ate	Verification	QC Inspector
Design Doc/Data Equip/Tooling Handling/Pre Material Operator Offset/Setup Process Supplier Training Transport														
Unapproved								UTCAT	ECODY]	
Landir	ng Gea	···				General	FAI	ULI CAI	EGORY				-	
Landi	Bei Cer Cra Cri Cru He Ins Ma	nding ntre No acks mp/Kin ffs ushing at Trea pection arks/Ch rning Se	Strip in atter equence	/Wave Tube	_	Bend BOM/Route Broken/Damage/Defect Burrs Contamination Countersink Cut Too Short Drawing Drill Holes Finish		Grain Hardwa Inspecti Instruct Misalig Mislabe Misread Off-set	on Incomplete/Ur ions Incomplete/U ned/off center led I	· -	Over, Part I Part I Part I		Vrong	Pressure/Forced Set-up Temperature/Cure Weld Wrong Stock Pulled Other
	l lwa	ve/Twi	st in Tub	e	1	Fit/Function		Out of S	Seauence					

DART AEROSPACE LTD	Work Order:	115513
Description: Float Skidtube (412)	Part Number:	D3391-3
Inspection Dwg: D3391 Rev: I		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
		Lat	he Section	n		
14.000	+/-0.010 -	14.000			tupe	16-25
3.500	+/-0.010	3.508			vern	[6-25 CNC-08
Ø3.200	+/-0.010	3.199	1		1	
Ø3.750	+/-0.010	3.750				
30° x 0.060 chamfer	+/-0.010	30°4.060			Ų	,
88.93	+/-0.030	88.93			terr	16-25

Measured by: grant Date: 14 /04/06

Audited by: Sim Date: 14/04/06

,	HAAS Section							
1.526	+0.000/-0.030	1.570		Vem	41-06			
7.500	+/-0.010	7.500		4				
27.750	+/-0.010	27,750		M-tane	M1-08			
31.750	+/-0.010	31.750		1/				
35.250	+/-0.010	35,250	_	//				
3.300	+/-0.010	3.305		Vern	ML-06			
0.200	+/-0.010	-B00		10				
3.520	+/-0.010	3.526		11				
0.687	+0.010/-0.000	-689		11				
R0.062	+/-0.010	R.01.2		R-6				
Ø0.484	+0.005/-0.001	6.485	_	Vem	111-06			

Measured by: Date: 14/04/27

Audited by: F.K. Date: 14/04/28

Rev	Date	Change	Revised by	Approved
Α	06.04.24	New Issue P/O D3391-015/-025	KJ/JLM	
В	06.06.19	Dwg revision update	KJ/JLM	
С	07.04.20	Ø0.208 dimension removed	KJ/JLM	
D5	07.09.06	0.400 dimension removed	KJ/JLM	
E	07.11.23	Dwg Rev. updated	KJ/EC/DD	
F	09.04.27	Dimensions updated per Rev H and NCR09-028	KJ/JLM	
G	09.11.16	Dimension 0.200 removed	KJ	
. Н	11.06.21	Dimension 44.995 removed	KJ	
1	12.05.15	Dwg Rev updated	KJ	
J	12.05.23	Dimension updated	KJ	
K	12.10.15	88.93 dimension removed	KJ 1A	
L	12.11.28	88.93 dimension added	KJ 😽	X



